

**To:** Griswold, Hays[Griswold.Hays@epa.gov]; Matt Francis[m.francis@erllc.com]; Allen Sorrenson - DNR[allen.sorensen@state.co.us]; Christoph Goss[christoph.goss@deereault.com]  
**Cc:** Petri, Elliott[Elliott.Petri@WestonSolutions.com]  
**From:** Way, Steven  
**Sent:** Sun 8/23/2015 6:55:53 PM  
**Subject:** RE: surge structure - temporary

Hello all,

We discussed this option with the ERRS site management team. The option that I would like to pursue in the short-term is getting the larger precast block (e.g., 3 ft x 3 ft x 4 or 5 ft / interlocking as used at Beldon site). They are in Farmington, NM.

In the meantime, ERRS was asked to transport two of the precast plates/slabs 3ft x 12ft x 0.5 ft to the top of the GK dump.

I believe the block would be more easily secured, more stable and more effective. However, we need to determine availability.

Any thoughts - we can talk Monday.

Thanks,  
Steve

Steven Way  
Federal On-Scene Coordinator  
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US EPA - Region 8  
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Office: 303-312-6723

-----Original Message-----

From: Griswold, Hays  
Sent: Friday, August 21, 2015 3:51 PM  
To: Matt Francis  
Cc: Way, Steven; Allen Sorrenson - DNR  
Subject: Re: surge structure

They can be put in long ways for more stability and filter fabric added for more filtering and way over engineered in thickness of the structure to ensure they hold. Could incorporate the precast slabs for added stability. They could be built in place to conform pretty well to the side walls of the opening...much flexibility in the building of them.

The one I built in California withstood a 100+ year storm and flood with ease (nothing else did)...

Hays

Sent from my iPad

> On Aug 21, 2015, at 3:38 PM, Matt Francis <m.francis@erllc.com> wrote:  
>  
> And I suspect we have way more than needed after altering road repair plan.  
>  
>

>  
> Sent via the Samsung Galaxy Note® 3, an AT&T 4G LTE smartphone  
>  
>  
> ----- Original message -----  
> From: "Griswold, Hays" <Griswold.Hays@epa.gov>  
> Date: 08/21/2015 3:37 PM (GMT-07:00)  
> To: "Way, Steven" <way.steven@epa.gov>, Matt Francis <m.francis@erllc.com>, Allen Sorrenson -  
DNR <allen.sorenson@state.co.us>  
> Subject: surge structure  
>  
> It just occurred to me that you could build the structure at the portal out of gabion baskets. You have  
immediate access to source. They are flexible enough to build as strong as desired as thick as desired  
can reinforce with concrete as doing in the road. Easy to build and take out. They would halt a surge and  
allow slow flow through which can be somewhat controlled by the size of material placed in them. Plenty  
of material cheap in the area...something to consider...  
>  
> Hays  
>  
> Sent from my iPad  
>  
>  
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